

Main MMC console

EXHIBIT A

Application_Center_Server - [Console Root\Application Center Server\MyKillerCluster]

Tree: Console, Windows, Help

Tree: Favorites: Console Root, Application Center Server, MyKillerCluster, Members, Set offline, All Tasks, New Window from Here, Refresh, Properties, Help

Server Status: ORIBRIC01AS Online, Alive

Cluster Performance: Charted Period: Fifteen Minutes

Cluster Performance Graph: Y-axis 0 to 100, X-axis 4:00:00 PM to 7:44:10 PM

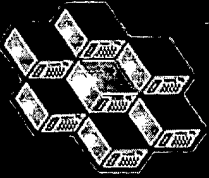
Color	Min	Max	Average	Last	Scale
6.60660660	21.5215215	20.0462578	6.60660660	1	
12890112	13479936	8298058.25	12890112	0	
0.85175845	2.34927270	5.50277259	0.85175845	0	

MyKillerCluster

Contains operations that can be performed on the object.

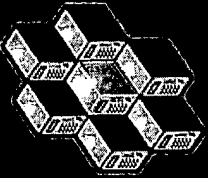
Application Center 2000

Best Available Copy



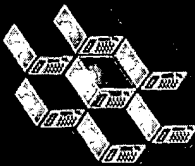
Monitoring

- Integrated monitoring tools
 - Roll up perf, event, log data from across multiple servers into integrated console
 - Allow drill down into specific machines, resources
 - NON GOAL: Usage Analysis / Data Mining
- Self-healing, Self-tuning
 - Monitor health of servers and applications
 - Set thresholds for acceptable performance
 - Fix it if we can



AppCenter Performance Monitor

- Real-Time to Intraday to Weeks to Years
 - Rollup data to store larger time periods
 - Interpolate down large time periods to fit chart
- Graphing View
 - Can select which counters to graph
 - Counters in a 10-15 preset list.
 - Last value, avg/sum, min, max across servers
- Default charts in main UI
- Custom charts in separate windows



Performance Monitor UI

Cluster Performance

Charted Period: Fifteen Minutes

Server Status

ASUTONERBOX Online, Alive

ASUTONERBOX2 Online, Alive

Synchronization

ASUTONERBOX2AS Unknown

ASUTONERBOX2as Success

ASUTONERBOX2as Unknown

Cluster Performance

100

80

60

40

20

0

7:01:20 PM

7:02:50 PM

7:05:20 PM

7:08:50 PM

7:11:20 PM

7:13:50 PM

10

20

30

40

50

60

70

80

90

100

7:01:20 PM

7:02:50 PM

7:05:20 PM

7:08:50 PM

7:11:20 PM

7:13:50 PM

66

Color

Min

Max

Average

Last

Scale

Processor Utilization

12.6998425

12.6998425

96.1021044

0

1

Memory Available Bytes

12103792

12103792

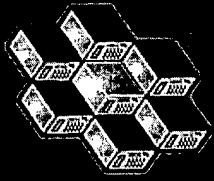
10796497.4

0

0

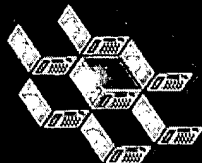
Feed

Help



Viewing the Logs

- View event logs for cluster or per server
 - Log agent does distributed query, aggregates, and sorts
- Cluster Event Viewer (AppCenter, Windows, etc.)
 - Filter by source, type, date, server, severity



Log Viewer UI

Category:
Type:
Source:
Event ID:
Filter:

Errors and Warnings

Date	Time	Server	Source	Event ID	Description
2/26/2000	8:57:50 PM	localhost	Performance Monitor	101	PercentProcessorTime > 90
2/26/2000	8:57:50 PM	localhost	Processor	0	CPU Overload
2/26/2000	8:58:46 PM	localhost	WinMgmt	37	0
2/26/2000	8:58:46 PM	localhost	Perflib	1002	0
2/26/2000	8:58:46 PM	localhost	W3Cts	1003	0
2/26/2000	8:58:46 PM	localhost	Perflib	1015	0
2/26/2000	8:58:46 PM	localhost	WinMgmt	37	0
2/26/2000	8:58:46 PM	localhost	Service Control Manager	7032	0
2/26/2000	8:58:46 PM	localhost	Memory	0	Low memory condition
2/26/2000	8:58:46 PM	localhost	W3Cts	1003	0
2/26/2000	8:58:46 PM	localhost	Perflib	1015	0
2/26/2000	8:58:46 PM	localhost	Home Page verification	0	Page Returned an error
2/26/2000	8:58:46 PM	localhost	W3Cts	1003	W3Cts: Stopped/Started
2/26/2000	7:28:16 PM	localhost	Performance Monitor	101	PercentProcessorTime > 90
2/26/2000	7:19:54 PM	localhost	Performance Monitor	101	PercentProcessorTime > 90
2/26/2000	7:18:34 PM	localhost	Processor	0	CPU Overload
2/26/2000	7:18:34 PM	localhost	W3Cts	1003	0
2/26/2000	7:18:16 PM	localhost	WinMgmt	61	0
2/26/2000	7:18:16 PM	localhost	Perflib	1015	0
2/26/2000	7:17:16 PM	localhost	WinMgmt	61	0

2/26/2000 0:57:50 PM localhost

PercentProcessorTime > 90

Source: Performance Monitor

The long description for this event is displayed here.

Find out more information about this event.

Visit Microsoft Support Center for related support information KB article: 6801

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